

MARINE CHEMIST CERTIFICATE
SERIAL NO.

WILDER
Survey Requested by
PLEASE SEE BELOW
Vessel
BUNKER RESIDUAL FUEL, DIESEL
Last Three (3) Cargoes

SEATTLE CITY LIGHT
Vessel Owner or Agent
STEEL CYLINDRICAL UNDER GROUND TANKS
Type of Vessel
O₂ METER
Test Method

MARCH 21, 1989
Date
30. SEATTLE STEAM RANT
Specific Location of Vessel
6-40A
Time Survey Completed

NORTH 12,000 GAL TK — FREE OF COMBUSTIBLE GAS AND FUEL IN BULK.

— SAFE TO EXCAVATE AND TRANSPORT ON
PUBLIC HIGHWAYS.

MIDDLE AND SOUTH 12,000 -GAL TANKS

DIESEL TANK ~ 100' TO SOUTH —

— INERTED WITH CARBON DIOXIDE

— MAY BE SAFELY EXCAVATED
AND TRANSPORTED ON
PUBLIC HIGHWAYS.

In the event of any physical or atmospheric changes adversely affecting the gas-free condition of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS

SAFE FOR WORKERS Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume, and that, (b) toxic materials in the atmosphere are within permissible concentrations, and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate

NOT SAFE FOR WORKERS Means that in the compartment or space so designated, the requirements of Safe for Workers has not been met

SAFE FOR HOT WORK Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks, or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met

SAFE FOR REPAIR YARD ENTRY Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted

CHEMIST'S ENDORSEMENT This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306-1980 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation

"The undersigned acknowledges receipt of this Certificate under Section 2.3 of NFPA 306-1980 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions

Signed _____ Name _____ Company _____ Date _____ Signed Don Sly 598
Marine Chemist Certificate No.

SCL 04216

CTY0049222

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